552,629

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 21 October 2004 (21.10.2004)

PCT

(10) International Publication Number WO 2004/089442 A1

(51) International Patent Classification⁷: B01D 29/03, 29/56

A61M 1/16,

(21) International Application Number:

PCT/SE2004/000557

(22) International Filing Date:

7 April 2004 (07.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0301021-2 60/461,659 7 April 2003 (07.04.2003) SE 7 April 2003 (07.04.2003) US

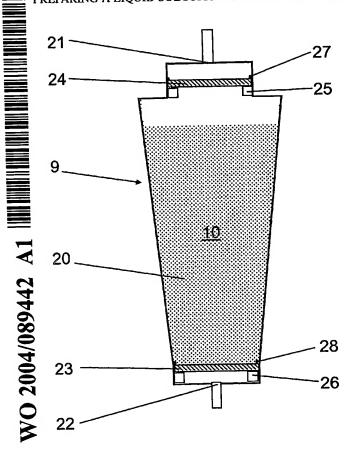
(71) Applicant (for all designated States except US): GAM-BRO LUNDIA AB [SE/SE]; Magistratsvägen 16, P.O. Box 10101, S-220 10 Lund (SE).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): LORENTZON, Jan-Olof [SE/SE]; Böle 139, S-380 30 Rockneby (SE). TRYGGVASON, Ragnar [SE/SE]; Dösvägen 13, S-240 21 Löddeköpinge (SE).
- (74) Agents: BERGLUND, Stefan et al.; Bjerkéns Patentbyrå KB, Östermalmsg. 58, S-114 50 Stockholm (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A FILTER FOR A CARTRIDGE, A CARTRIDGE, USE OF A FILTER IN A CARTRIDGE AND A SYSTEM FOR PREPARING A LIQUID SOLUTION FOR A MEDICAL PROCEDURE



(57) Abstract: The invention refers to a filter (23, 24) a cartridge (9) containing a particulate material (20), a use of the filter and a system for preparing a liquid solution. The cartridge (9) includes an inner space (10) for housing the particulate material (20), an inlet (21) arranged to permit the introduction of a liquid into the inner space, and an outlet (22) arranged to permit discharge of liquid from the inner space. The filter (23) is arranged at the outlet (22) to permit passage of the liquid in a filter direction (x) through the filter but to prevent passage of the particulate material through the filter. The filter includes at least one slit-shaped opening, which has a first extension and a second extension being substantially perpendicular to the filter direction (x). The second extension is significantly shorter than the first extension.

GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.